

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

01/26/2012

Michael McGee  
Assistant District Attorney, Norfolk County

Dear ADA McGee,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]. Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Della Saunders.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Della Saunders analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".  
Annie Dookhan  
Chemist  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6622

# Curriculum Vitae

## Annie Khan (Dookhan)

### **Education:**

University of Massachusetts, Boston, Ma, Master of Science in Chemistry

University of Massachusetts, Boston, Ma, Bachelor of Science

Major: Biochemistry

Minor: Economics

### **Experience:**

2003 – present

#### **Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory**

\*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

\*Writing of the Standard Operating Procedures (SOPs) and Protocols.

\*Responsible for the Quality Control and Quality Assurance of analytical instruments, reagents and controls/standards.

\*Maintenance and repairs of analytical instruments.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court.

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health.

\*Notary Public.

2001 – 2003

#### **QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control**

\*Completed proficiency training conducted by a member of the staff within the MBL Quality Control and Quality Assurance Department for the Food and Drug Administration.

\*Method Development for creating new techniques for the QC Dept. and FDA.

\*Writing, revising and reviewing the Standard Operating Procedures (SOPs).

\*Trained and supervised new chemists and interns for the department.

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### **Additional Courses:**

#### **Department of Justice – Forensics Professionals**

Introduction to Forensic Drug Chemistry

Perspectives in Expert Testimony

Chemical Spot Test and Mechanism for Illicit Drugs

Evidence Analysis

Forensic Mass Spectrometry

Ethics in Forensic Science

Forensic Science 101: An Introduction

Transition to Leadership

Fundamentals of Forensic Questioned Documents

Fundamentals of Forensic Toxicology

### **Additional Trainings:**

Good Laboratory Practice/Good Manufacturing Practice (GLP/GMP) training with Massachusetts Biologic Laboratory.

Quality Control/Quality Assurance (QC/QA) training according to FDA Codes and Regulations.

Gas Chromatography (GC) and Gas Chromatography/Mass Spectrometry (GC/MS) trainings with Agilent Technologies and Restek.

High Power Liquid Chromatography (HPLC) and HPLC/MS/MS trainings with Waters Cooperation.

Fourier Transform Infrared Spectroscopy (FTIR) training with Spectros and Spectrum One.

Ultraviolet–Visible Spectroscopy (UV-Vis) training with Agilent Technologies and Beckman.

Total Organic Carbon Analyzer (TOC) training with MBL and Sievers.

### **Associations:**

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

## Curriculum Vitae

Della Saunders

### **Education:**

Boston University Boston, MA. Bachelors of Arts in Chemistry 1982

### **Experience:**

**1985-present:** Currently Chemist III Massachusetts Department of Public Health Drug Analysis Laboratory at State Laboratory Institute Boston, MA. Responsible for analyzing unknown substances submitted by Massachusetts law enforcement agencies; operating, maintaining, and interpreting data from analytical equipment (analytical balance, microscope, gas chromatogram, ultraviolet spectrometer, infrared spectrometer, gas chromatogram/mass spectrometer); training junior level chemists; providing expert testimony to local, state, and federal courts in the Commonwealth of Massachusetts.

**1984-1985:** Laboratory Technician in the Media Laboratory at State Laboratory Institute Boston, MA. Responsible for making chemical reagents and media plates; operating and maintaining laboratory equipment (autoclave, pH meter, ultra-violet hood), and collecting safety data for laboratory protocols.

### **Training:**

**1985:** Six week training with Senior Staff at Massachusetts Department of Public Health (MDPH) Drug Analysis Laboratory Boston, MA. Appointed Assistant Analyst MDPH

**1987:** One week training course in drug analysis given by the Federal Drug Enforcement Agency (DEA) McLean, VA.

**1992:** Training in Gas Chromatograph/Mass Spectroscopy (GC/MS) Hewlett Packard (Agilent)

**1996:** Training in Fourier Transform Infra-Red Spectroscopy ETA (Analect)

**2001:** Expert Witness Workshop National Laboratory Training network Quality Assurance/Quality Control Training (MDPH)

**2002:** Techniques of Supervision Training (MDPH)

**1999:** Notary Public Commonwealth of Massachusetts

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION

*The Commonwealth of Massachusetts*  
*Executive Office of Health and Human Services*  
*Department of Public Health*  
*State Laboratory Institute*

Boston Drug Laboratory  
Tel (617) 983-6622  
Fax (617) 983-6625

Amherst Drug Laboratory  
Tel (413) 545-2601  
Fax (413) 545-2608

Boston Hours  
8:00 – 11:00  
2:00 – 4:00

Amherst Hours  
9:00 – 12:00  
1:00 – 3:00

**DRUG RECEIPT**

City or Department: Weymouth Police Reference No.: [REDACTED]

Name and Rank of Submitting Officer: Det Thomas Anderson

Defendant(s) Name (last, first, initial):  
[REDACTED]

To be completed by Submitter  
Description of Items Submitted

To be completed by Lab Personnel  
Gross Weight      Lab Number

12 white pills marked 54/142 11-1095-P12	5.39g	<span style="background-color: black; color: black;">[REDACTED]</span>

Received by: ELO Date: 5-9-11

No. [REDACTED] Date Analyzed: JUN 24 2011  
City: Weymouth Police Dept  
Officer: Detective THOMAS ANDERSON

Def: [REDACTED]  
Amount: 1.000 mg TAE  
No. Cont: 1 Cont: pb

Date Rec'd: 06/29/2011 No. Analyzed:

Gross Wt: 5.000 Net Wt: 7  
#Tests: 1 ASD + 2 DS

Prelim: Methadone Findings: Methadone  
B

Folk\_OIG\_PRR\_030764

# DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Weymouth. ANALYST AJ7

No. of samples tested: \_\_\_\_\_ Evidence Wt. \_\_\_\_\_

PHYSICAL DESCRIPTION: Gross Wt ( ) : \_\_\_\_\_

12 white rectangular tablets

17-PS

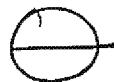
Gross Wt ( ) : \_\_\_\_\_

Gross Wt ( ) : \_\_\_\_\_

Pkg. Wt: \_\_\_\_\_

Net Wt: 2.4554

54  
142



## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate ( )

### Microcrystalline Tests

Gold  
Chloride \_\_\_\_\_

Marquis \_\_\_\_\_

TLTA ( )

Froehde's \_\_\_\_\_

### OTHER TESTS

Mecke's \_\_\_\_\_

Momente A(?)

## PRELIMINARY TEST RESULTS

RESULTS methadone

DATE 6-21-11

## GC/MS CONFIRMATORY TEST

RESULTS methadone

MS  
OPERATOR bcs

DATE 6-24-11

## Drug Information

**DRUG NAME:** METHADONE HYDROCHLORIDE

**INGREDIENTS:** METHADONE HYDROCHLORIDE -- 10 MG

**Color:** white

**NDC:** 00054-8554-24

**Imprint:** 54; 142

00054-4571-25

**Form:** Tablet

**Regulatory Status:** Schedule II

**Available-Container-Size:** unit dose  
package of 100 , Bottle of 100

**Availability:** United States

**AAPCC Code:** 037703 - Methadone

**Product ID:** 3285503

**Contact:** Roxane Laboratories

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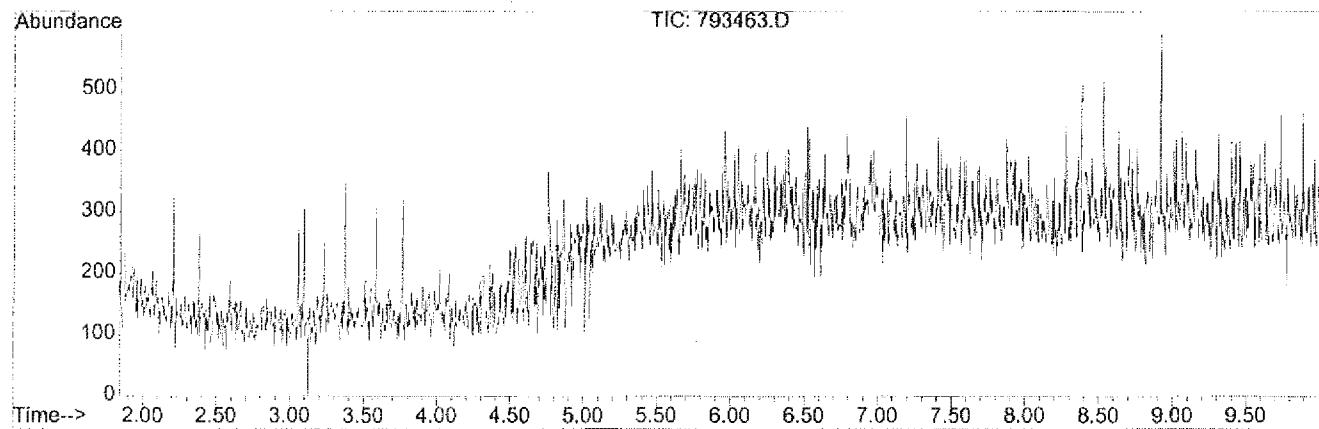
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Operator : DCS  
Date Acquired : 24 Jun 2011 7:32  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

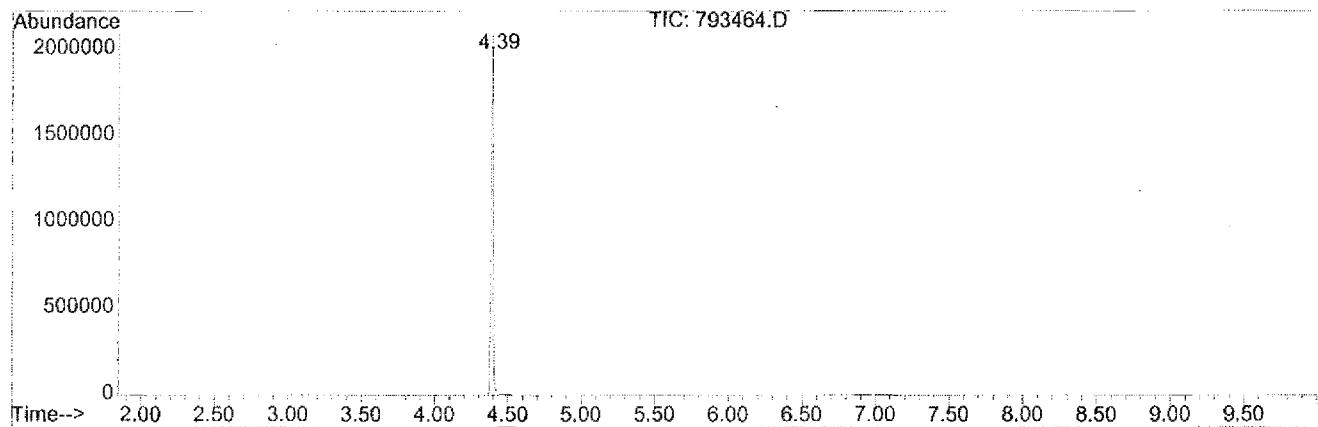
# Area Percent / Library Search Report

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Operator : DCS  
Date Acquired : 24 Jun 2011 7:45  
Sample Name : METHADONE STANDARD  
Submitted by :  
Vial Number : 64  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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# Area Percent / Library Search Report

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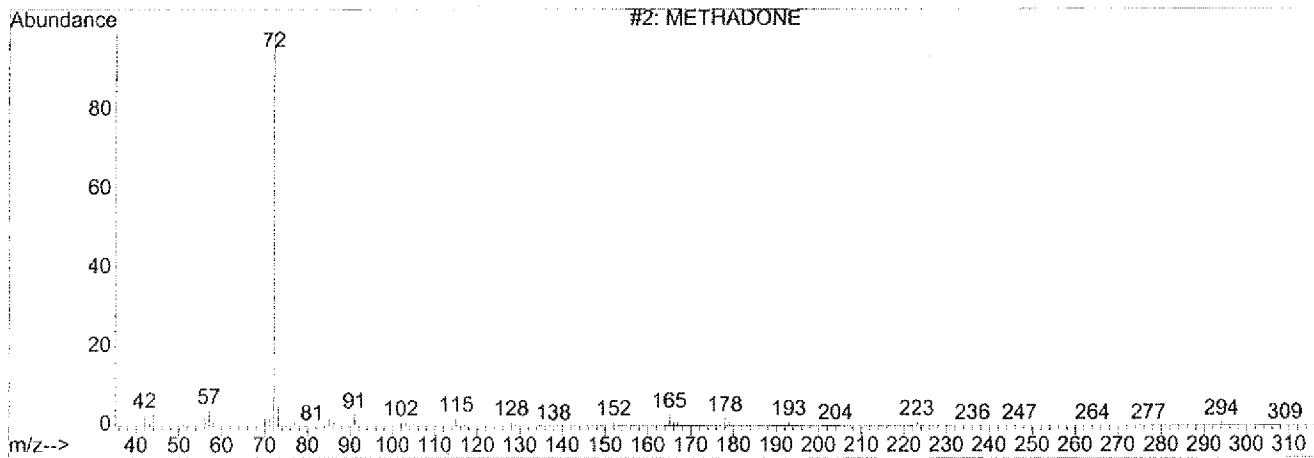
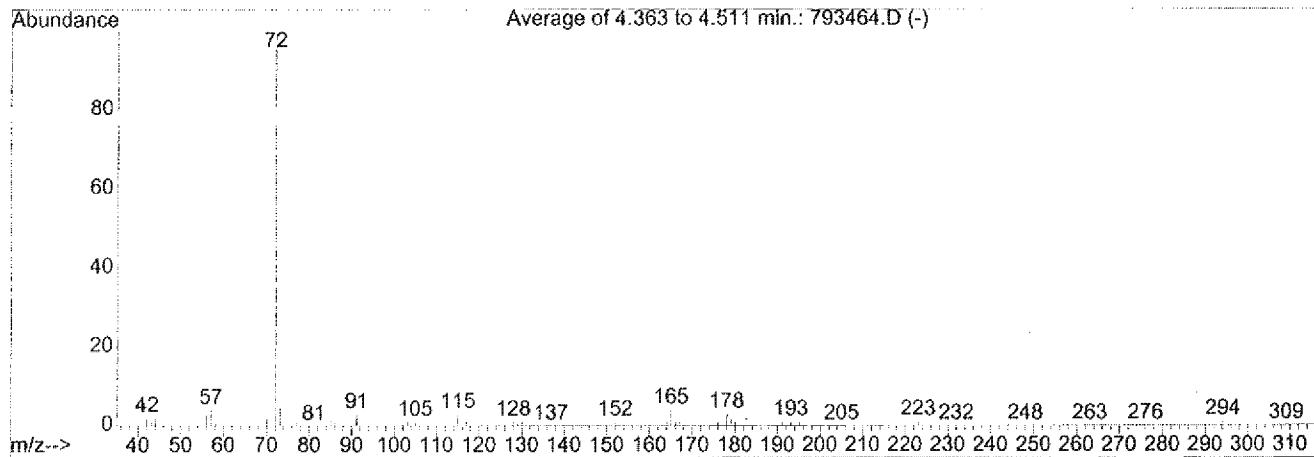
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File Name : G:\06\_23\_11\793464.D  
Operator : DCS  
Date Acquired : 24 Jun 2011 7:45  
Sample Name : METHADONE STANDARD  
Submitted by :  
Vial Number : 64  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	4.39	C:\DATABASE\SLI.L METHADONE	001095-90-5	96



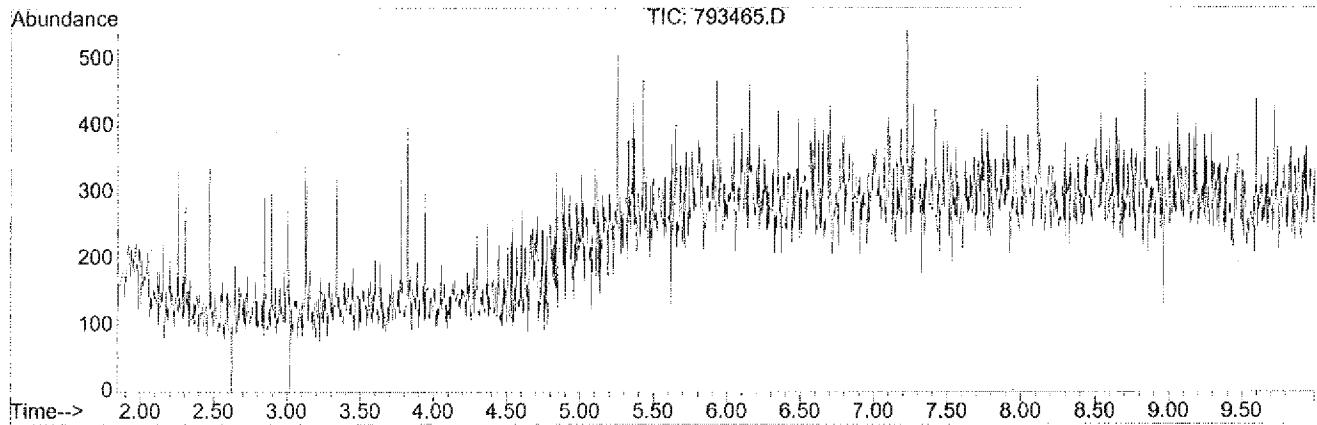
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Operator : DCS  
Date Acquired : 24 Jun 2011 7:59  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

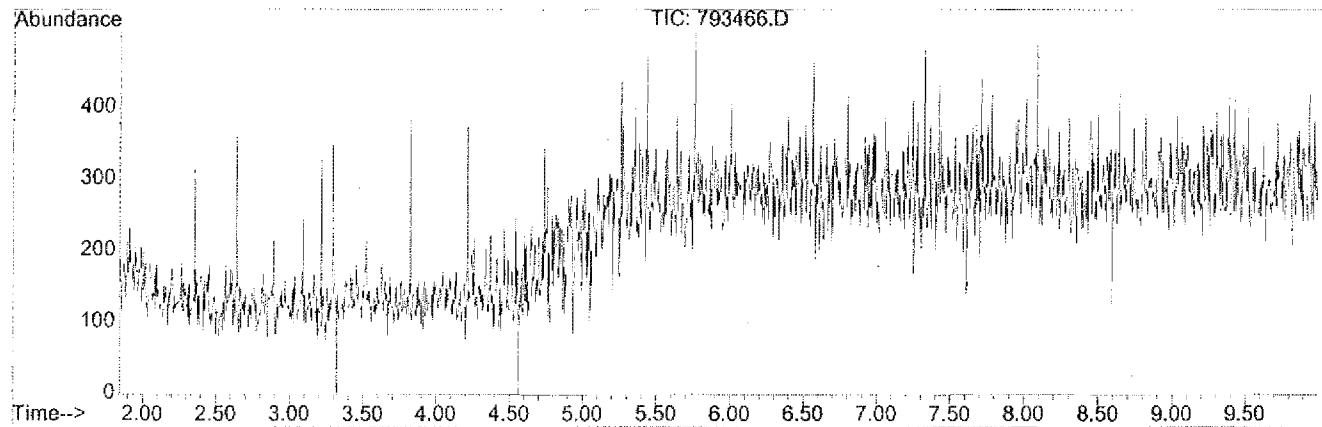
# Area Percent / Library Search Report

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Information from Data File:

File Name : G:\06\_23\_11\793466.D  
Operator : DCS  
Date Acquired : 24 Jun 2011 8:12  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

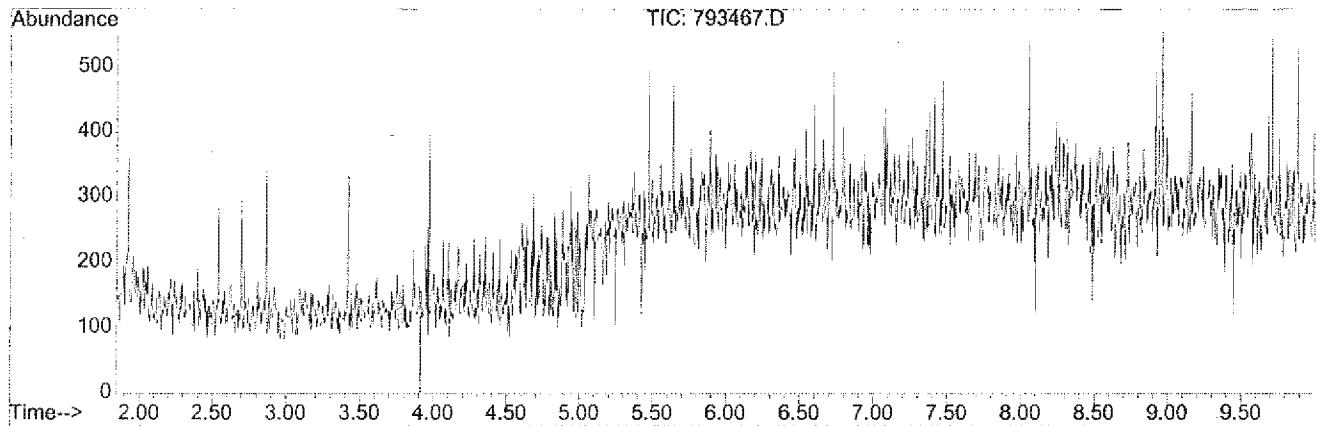
Area Percent / Library Search Report

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File Name : G:\06\_23\_11\793467.D  
Operator : DCS  
Date Acquired : 24 Jun 2011 8:26  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

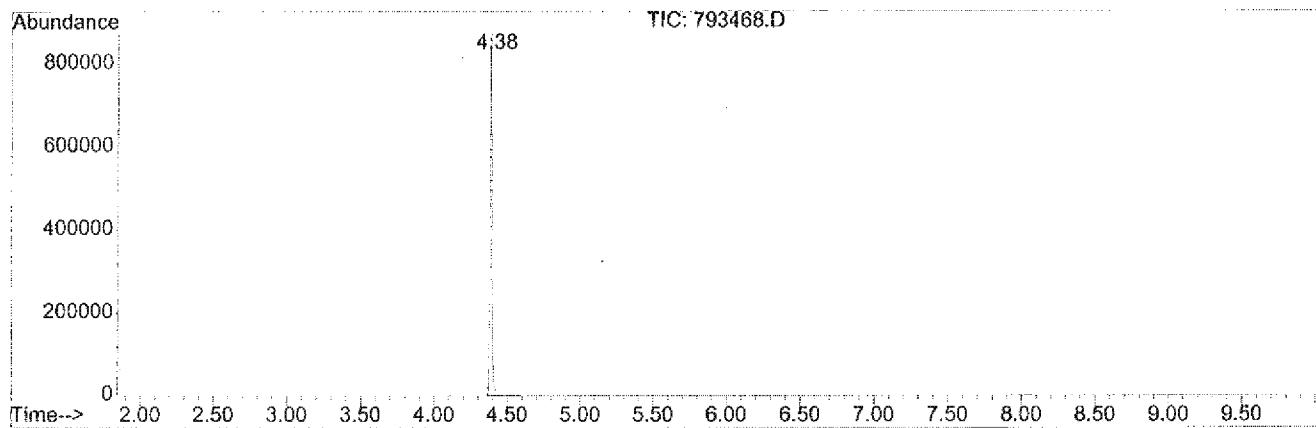
# Area Percent / Library Search Report

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Information from Data File:

File Name : G:\06\_23\_11\793468.D  
Operator : DCS  
Date Acquired : 24 Jun 2011 8:39  
Sample Name : [REDACTED]  
Submitted by : ASD  
Vial Number : 68  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
4.383	790487	100.00	100.00

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# Area Percent / Library Search Report

**Information from Data File:**

File Name : G:\06\_23\_11\793468.D  
Operator : DCS  
Date Acquired : 24 Jun 2011 8:39  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 68  
AcquisitionMeth: DRUGS  
Integrator : RTE

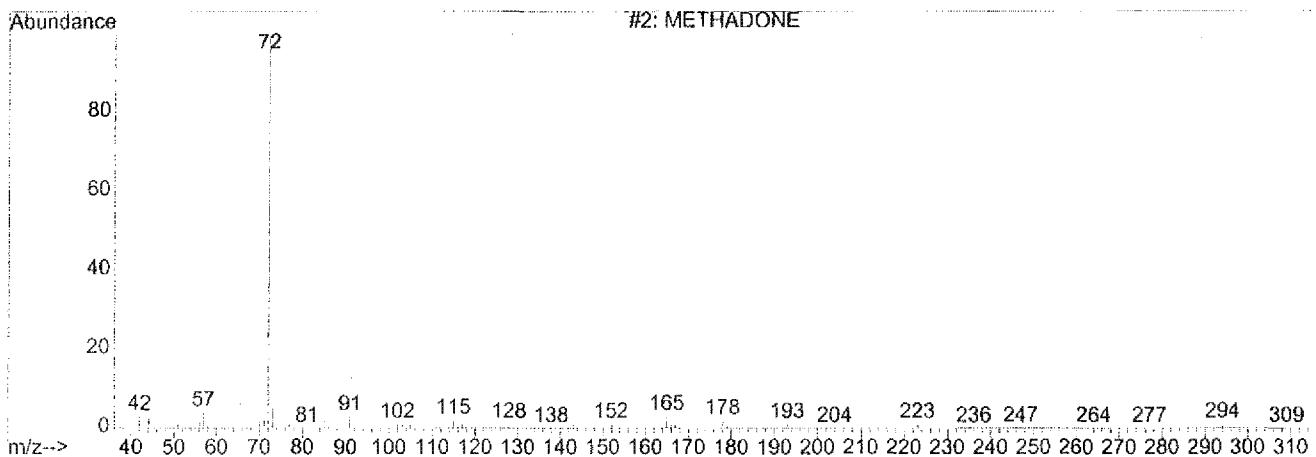
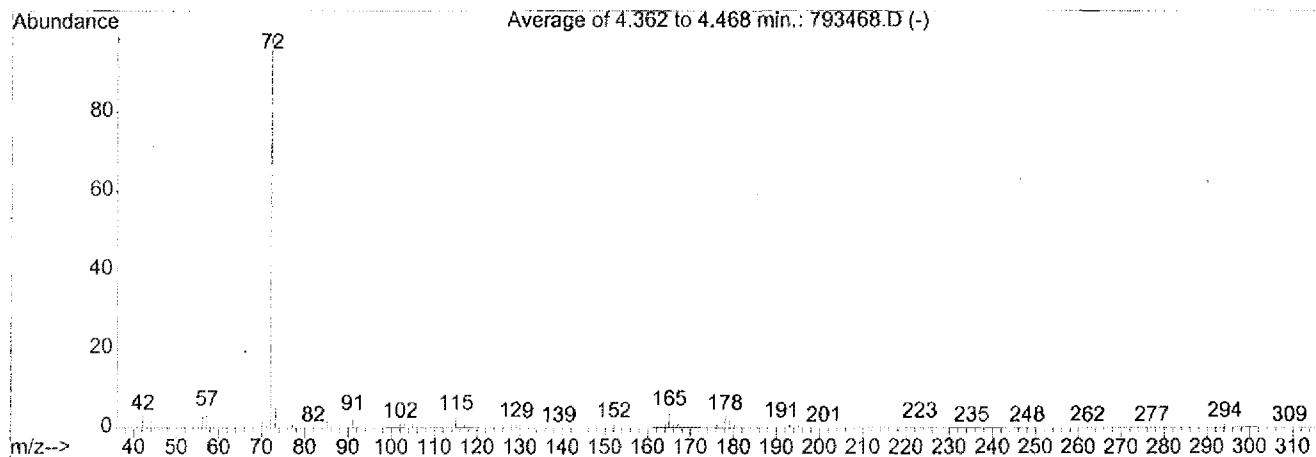
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Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

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PK#	RT	Library/ID	CAS#	Qual
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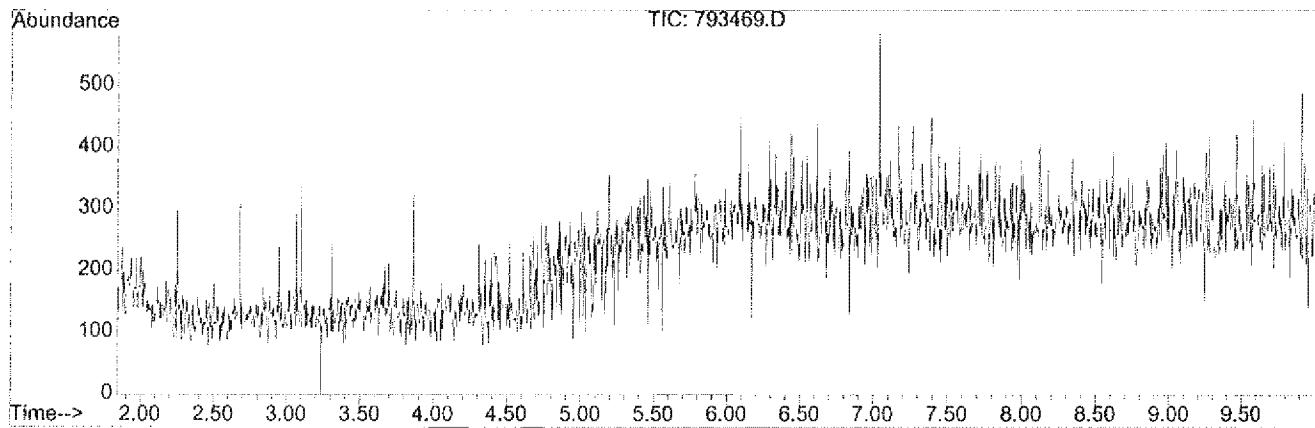
Area Percent / Library Search Report

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File Name : G:\06\_23\_11\793469.D  
Operator : DCS  
Date Acquired : 24 Jun 2011 8:53  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

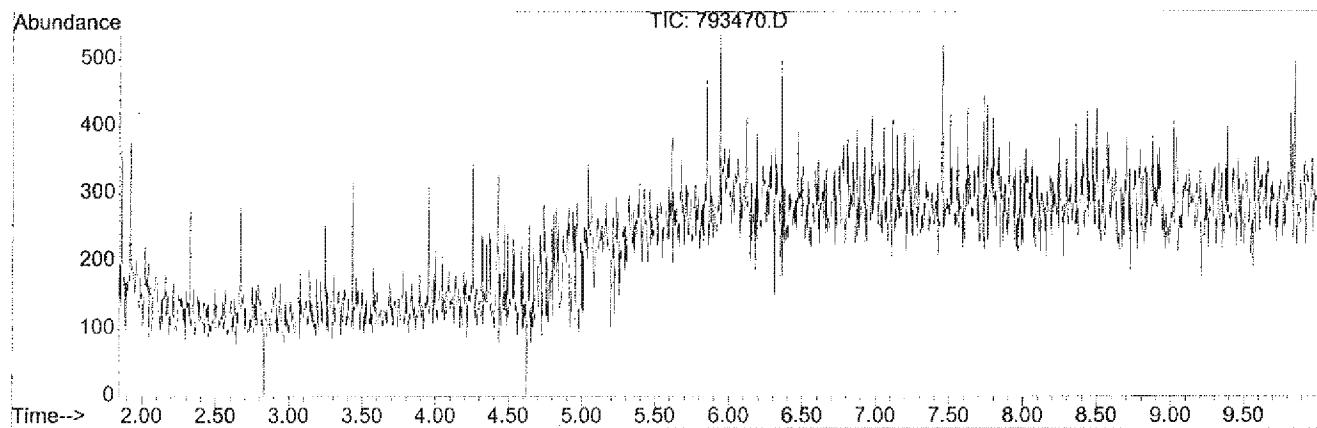
Area Percent / Library Search Report

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Operator : DCS  
Date Acquired : 24 Jun 2011 9:06  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

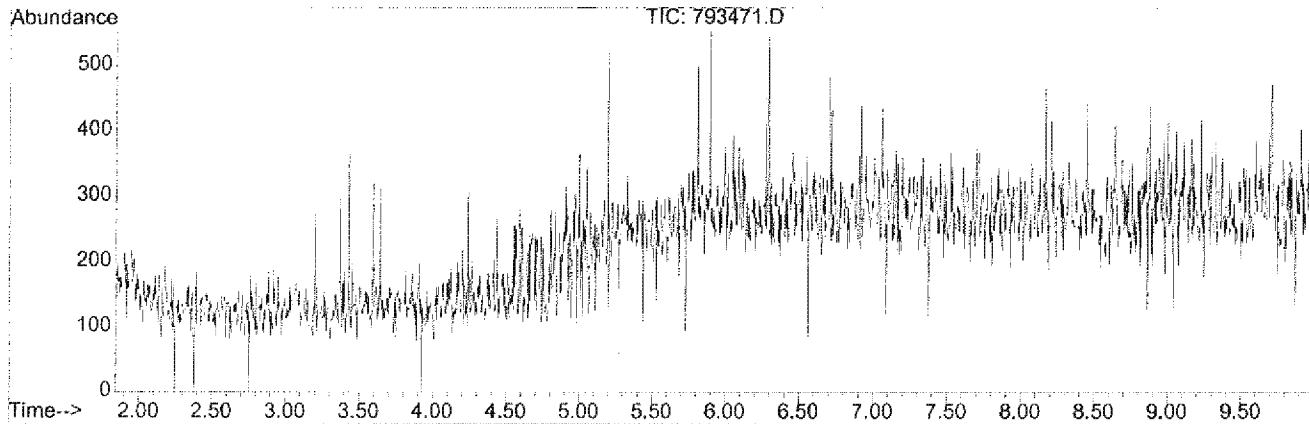
Area Percent / Library Search Report

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Information from Data File:

File Name : G:\06\_23\_11\793471.D  
Operator : DCS  
Date Acquired : 24 Jun 2011 9:20  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

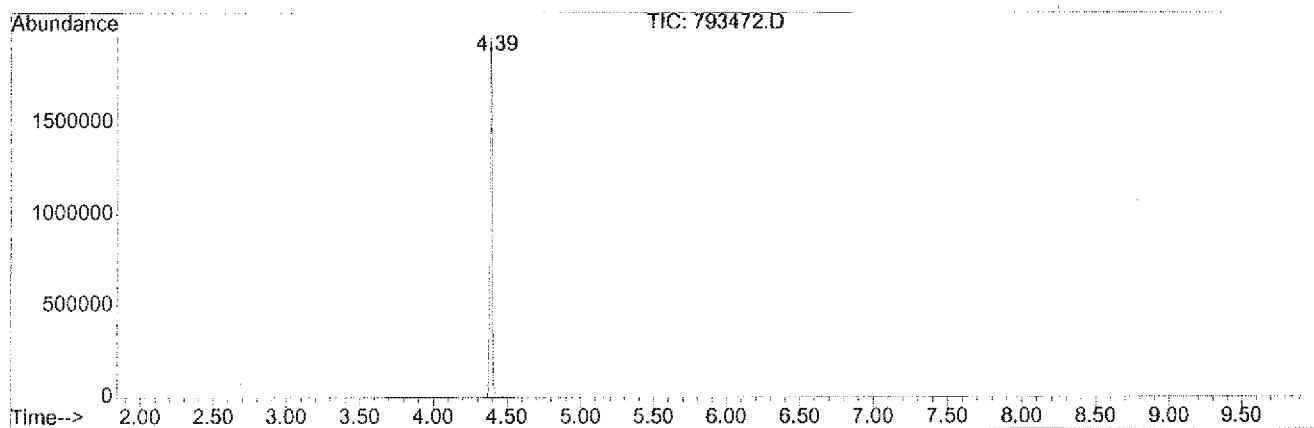
# Area Percent / Library Search Report

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Information from Data File:

File Name : G:\06\_23\_11\793472.D  
Operator : DCS  
Date Acquired : 24 Jun 2011 9:33  
Sample Name : METHADONE STANDARD  
Submitted by :  
Vial Number : 64  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
4.387	1960169	100.00	100.00

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# Area Percent / Library Search Report

Information from Data File:

File Name : G:\06\_23\_11\793472.D  
Operator : DCS  
Date Acquired : 24 Jun 2011 9:33  
Sample Name : METHADONE STANDARD  
Submitted by :  
Vial Number : 64  
AcquisitionMeth: DRUGS  
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
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